

Historical collections continue to support faunistic research: the first record of *Saptha divitiosa* (Lepidoptera, Choreutidae) from the Nicobar Islands, India

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Abstract

Based on a specimen collected in the mid-19th century, the first documented record of *Saptha divitiosa* from the Nicobar Islands is given. This record extends and reshapes the known western limit of this species' distribution range. Image of the specimen, as well as brief considerations on the known distribution of this species are provided. The specimen also holds a certain historical value, being collected during the first "Galathea" expedition (1845–1847).

Keywords

faunistic note, new record, distribution.

The "Grigore Antipa" National Museum of Natural History is well known as a depository of many important collections of butterflies and moths comprising specimens collected mainly from the Central and south-eastern Europe, chiefly from the present territory of Romania. However, some of these collections are also rich in material from other regions, especially the Far East and the Americas.

During recent decades, constant efforts have been made to improve the knowledge on the material from relatively poorly studied groups, previously superficially catalogued and/or for series collected in remote, little-known geographical areas.

This way, it was hoped not only the knowledge on the systematic diversity of several insufficiently studied collections would become available, but also to increase the extent to which the “Grigore Antipa” museum’s collections might support documenting the fauna from remote geographical areas where faunal studies are still in their beginnings. As one result, a close examination of specimens found in roughly sorted and catalogued batches of micromoths from prince Aristide Caradja’s Lepidoptera collection have led to the identification of a species previously not reported from the Nicobar Islands.

Material examined

***Saptha divitiosa* Walker, 1864.** 1 ♂ (Fig. 1), INDIA, the Nicobar Islands. The blue collecting label found on the pin of the specimen also has the mention “Galathea” (Fig. 2), which indicates that the specimen was collected during the first Danish expedition on the corvette HDMS Galathea (1845–1847). This expedition visited the Nicobar Islands during January and February 1846 bringing many valuable specimens back to Copenhagen on its return. Probably long after it was captured, this specimen was correctly identified, since it also holds on its pin a label with the mention “Chor.[eotis] nobilis F. & R.”, a reference to *Badera nobilis* Felder and Rogenhofer, 1875, a junior synonym of *Saptha divitiosa* described from a specimen captured in Ambon almost a decade later, during the expedition on SMS Novara (1857–1859) (Felder et al. 1875).



Figure 1. *Saptha divitiosa*, male, the Nicobar Islands; specimen in Aristide Caradja’s collection, the “Grigore Antipa” National Museum of Natural History.



Figure 2. *Saptha divitiosa*, male, the Nicobar Islands – specimen labels.

congeneric *Saptha beryllitis* (Meyrick, 1910) based on a single specimen collected on this archipelago (Meyrick 1910), currently in the Edward Meyrick's collection, BMNH. Nevertheless, studies should be undertaken to check whether the population of this species still exists in the Nicobar Islands and also to increase the knowledge of the biology of this species.

The specimen of *Saptha divitiosa* presented in this paper has also a historical value, since it was collected during the first Danish Galathea expedition (1845–1847). Among the materials brought by the expedition at its return to Denmark were 93 containers of “zoological, entomological, botanical and geological objects”. The intention of the King Christian VIII of Denmark, the one who had taken action on the organisation of this expedition, was to later sponsor the publication of the scientific results of the expedition. However, at that time there were no lepidopterists in the Zoological Museum from Copenhagen. Moreover, the King died of sepsis on January 20, 1848 and soon after his country was thrown into the Three Years' War (1848–1852). Most of the boxes with the collected items remained unopened and, with some exceptions, were never properly processed. Many of the specimens collected during the first “Galathea” expedition subsequently served mainly as reference material. However, on few occasions, some of these specimens were entrusted for study to different specialists, among them the Danish entomologist Wilhelm von Hedemann

(1836–1903). After von Hedemann's death, Hans Larsen, his personal servant, sold his collection of microlepidoptera to prince Aristide Caradja, who incorporated it in his own collection. Later on, prince Aristide Caradja sold his collection at the end of World War II to the "Grigore Antipa" National Museum of Natural History, which explains how several specimens collected during the first "Galathea" expedition are now in the possession of the museum in Bucharest.

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References

- Arita Y (1987) Taxonomic studies of the Glyphipterigidae and Choreutidae (Lepidoptera) of Japan. *Transactions of the Shikoku Entomological Society* 18 (1–2): 1–244.
- Diakonoff A (1968) Microlepidoptera of the Philippine Islands. *Bulletin of the United States National Museum* 257: 1–484.
- Durrant J H (1915) Microlepidoptera (Pterophorina and Tineina) collected by the British Ornithologists' Union and Wollaston Expeditions in the Snow Mountains, Southern Dutch New Guinea. *Lepidoptera of the British Ornithologists' Union and Wollaston Expeditions in the Snow Mountains, Southern Dutch New Guinea, The Zoological Museum, Tring, Hazell, Watson & Viney Ltd., London & Aylesbury* 2 (15): 149–168.
- Felder C, Felder R, Rogenhofer A (1875) *Reise der österreichischen Fregatte Novara um die Erde in den Jahren 1857, 1858, 1859 unter den beihilfen des Commodore B. von Wüllerstorff-Urbair, Zoologische Teil Lepidoptera* (pt. 9), Band 2, Abtheilung 2: 1–20, pl. 139, fig. 9. [in German]
- Heppner J B, Duckworth W D (1981) Classification of the Superfamily Sesiioidea (Lepidoptera: Ditrysia). *Smithsonian Contributions to Zoology* 314: 1–144.
- Meyrick E (1907) Descriptions of Australasian Microlepidoptera. *Proceedings of the Linnean Society of New South Wales* 32: 47–150.
- Meyrick E (1910) Descriptions of Malayan Micro-Lepidoptera. *Transactions of the Royal Entomological Society of London* 58 (4): 430–478. <https://doi.org/10.1111/j.1365-2311.1910.tb01179.x>
- Meyrick E (1914) H. Sauter's Formosa-Ausbeute: Pterophoridae, Tortricidae, Euconmidae, Gelechiidae, Oecophoridae, Cosmopterygidae, Hyponomeutidae, Heliodinidae, Sesiidae,

- Glyphipterygidae, Plutellidae, Tineidae, Adelidae (Lep.). Supplementa Entomologica (Berlin) 3: 45–62. [in German]
- Singh N, Ahmad J, Chandra K (2023) – Moths (Lepidoptera) of Great Nicobar Biosphere Reserve. In Sivaperuman C, Banerjee D, Tripathy B, Chandra K (Eds): Faunal Ecology and Conservation of the Great Nicobar Biosphere Reserve, Springer, Singapore: 121–181.
- Snellen P C T (1885) Lepidoptera van Celebes verzameld door Mr. M. C. Piepers, met aantekeningen en beschrijving der nieuwe soorten. Tijdschrift voor Entomologie 28 (1): 15–49. [in Dutch]
- Sondhi S, Sondhi Y, Singh R P, Roy P, Kunte K (chief eds.) Moths of India, v. 3.90. Indian Foundation for Butterflies Trust. URL: <https://www.mothsofindia.org>.
- Takara T (1954) Fauna of the Senkaku Islands, Ryukyus. Science Bulletin of the Faculty of Agriculture, University of the Ryukyus 1: 57–74. [In Japanese with English summary.]
- Walker F (1864) List of the specimens of Lepidopterous insects in the collection of the British Museum. Heterocera, Sixth Series. Order of the Trustees of the British Museum (Natural History), London: 1015.
- Walker F (1866) List of the specimens of Lepidopterous insects in the collection of the British Museum. Heterocera, Seventh Series. Order of the Trustees of the British Museum (Natural History), London: 1820.